A Checklist of the Birds of Singapore Island

By C. A. GIBSON-HILL, M.A., M.B.O.U. (Completed, June 1949)

The following list has been drawn up to show the birds occurring or likely to occur on Singapore Island at the present time. It is confined to these limits. The area considered is restricted to the island and its immediate coastal waters. Birds known from the neighbouring islets but not yet recorded on Singapore Island have not been included, though in a few cases reference is made in the notes to the fact that species which are scarce in our area are apparently numerous a few miles away.

Birds are admitted as residents or regular visitors only if there is evidence that they have been encountered here in the last thirty years. Nineteenth century records of sedentary birds are given in a short note at the beginning of the family concerned, not on the list itself, if they have not been confirmed in this period. On the other hand genuine vagrants and strays have been admitted where it seemed that the identification was sound,

on the grounds that such birds might turn up again.

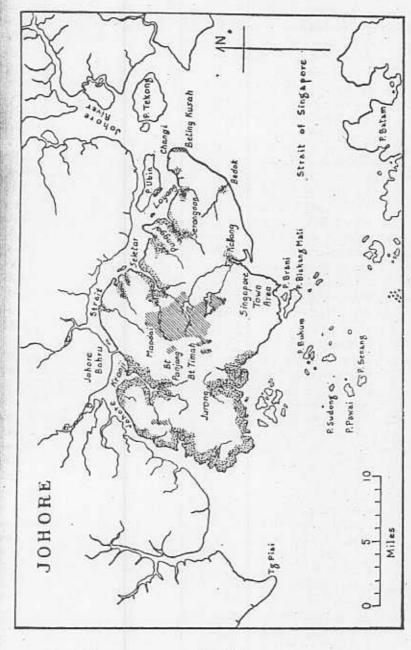
The list has been compiled from published records, specimens in the Raffles Museum and field data collected by the present writer. Much valuable information has also been supplied by Mr. F. G. H. Allen, Mr. E. H. Bromley and Dr. B. D. Molesworth, all of whom have kindly read the first draft of this paper and supplied critical comments based on their personal experiences. It is hoped that the resultant summary of the status of the resident birds and the regular visitors gives a reasonably accurate

survey of existing conditions.

The principal nineteenth century sources are the list published by Hume (1879–80), the papers by Kelham (1881–2) and the British Museum Catalogue (1874–95, 27 vols.). Some of the birds given in these works are certainly not on the island in a feral condition at the present time. In a few cases the authors probably worked from trade skins which were wrongly localised; in other instances their identifications were undoubtedly at fault; for the rest it would seem that the clearing of the greater part of the island's wooded areas has resulted in a definite reduction in the range of its avifauna. No use has been made here of the paper published by Major H. R. Baker (Journ. Bombay Nat. Hist. Soc., 17: 755–764), in view of the uncertainty surrounding the value of a number of his identifications which were made by reference to a popular book on Indian birds. Considerable assistance has been derived from the preliminary list compiled by

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Sketch map of Singapore Island and immediate surrounding areas. The mangrove zone (shown by stippling) and the heavily wooded areas (shown by diagonal shading) are marked on Singapore Island only.

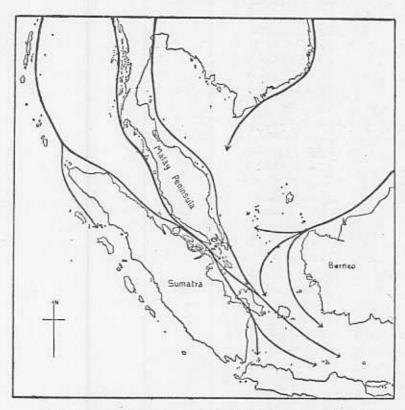
F. N. Chasen (1923; corrigenda & addenda 1925), but unfortunately he seldom states the source of individual records.

The birds entered on this list are given the numbers allotted to them in the annotated checklist of Malayan birds (Gibson-Hill, Bull. Raff. Mus., 20, 1949) to facilitate cross-reference. It will be seen that in some cases the status accorded is different on the two lists. Certain species which are resident in Malaya as a whole are apparently only non-breeding visitors to Singapore Island. In addition on the present list winter visitors are not shown as passage-migrants also, unless the numbers normally seen during the passage period are appreciably greater than those during the intervening winter months. The limited amount of material at present available suggests that in most species the main autumn migratory streams pass south on either side of the island, not over it, and that for the most part it is only a backwash which reaches us here (see map 2).

The sources of the unusual records are shown here in the same manner as on the Malayan checklist. Records of rare vagrants or scarce visitors based on specimens still in the Raffles Museum and examined by the present writer have the collector's name, where it is known, given in italics in brackets after the record. Where a collector is not known the skin is marked "(c.n.k.)." Where it was taken by a native collector working for one of the Malayan Museums it is shown as "(nat. coll.)." Records based on published data are marked with the name of the author, the date of publication of the reference and the page number, as "(Hume, 1880: 118)." Information from MS notes or personal communications show the author's name in ordinary type. Resident birds are marked with an asterisk when definite evidence of their breeding on the island is available; this information is summarised in an appendix (infra, pp. 177–80).

This list accepts a total of 280 birds, 151 of which are almost certainly resident on the island, while a further 5 are probably resident here. Only some 70–80 of these birds can be regarded as at all common; about 50 are rare in our area, or are confined to very limited habitats. About 40 of the 124 non-resident birds occur regularly as winter visitors or passage migrants in reasonable numbers; some are very plentiful during the period of their stay here. In addition the numbers of a few of the resident birds are noticeably greater during the winter months. The remaining 80 visitors only reach our area in very small numbers, occasionally, or as vagrants represented so far by one or two records. On the whole it would seem that about half the birds on this list should be encountered in the course of 2–3 years by anyone in a position to work over the full range of habitats present on the island. The remainder would only come his way slowly and over a long period.

In general the avifauna is similar to that of the coastal belt round the southern portion of the peninsula, except for the relative scarcity or absence of the jungle-haunting species. On the other hand some of the birds of the coastal region are extremely common on the island and are encountered freely in open gardens all round the town. The true woodland birds are largely or entirely confined to the one remaining forest area, covering the catchment basins of the Seletar, Pierce and Mac-Ritchie Reservoirs and part of the slopes of Bukit Timah and Bukit Panjang (marked by diagonal shading on map 1).



Sketch map giving approximately the lines apparently followed by the main mass of the southward bound passage migrants along the coasts of the Malay Peninsula and down to the west end of the Java Sea. Singapore lies in the concavity in the coast at the extreme south end of the peninsula between, but away from, the two major lines of migration. It is probable that the majority of the surviving birds follow the same routes northward.

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Family HYDROBATIDAE

Genus Oceanodroma Reichenbach

- Oceanodroma m. monorhis (Swinh.). Swinhoe's Petrel.
- Winter visitor eastern end Singapore Strait, September-May. Occasionally reaches waters off Singapore Island.

Family Pelecanidae

Genus Pelecanus Linné

- Pelecanus onocrotalus Linn. White Pelican.
- Rare vagrant. Most recent formal record January 1903 (nat. coll.).

Family SULIDAE

Genus Sula Brisson

- 7. Sula leucogaster plotus (Forst.). Brown Booby.
- Rare vagrant. Taken Davison (Hume and Davison, 1878: 493). Seen 1948 (Le Mare).

Family FREGATIDAE

Genus Fregata Lacépède

 Fregata a. ariel (G. R. Gray). Occasional visitor. Several recent visual records; no formal record.

Family ARDEIDAE

There was formerly a specimen of the Javanese Pond-Heron, Ardeola speciosa (Horsf.), in the Berlin Museum which was said to have come from Singapore, but it was almost certainly wrongly localised.

Genus Ardea Linné

 Ardea s. sumatrana Raffles. Dusky-grey Heron. Occasional visitor.

13. Ardea cinerea rectirostris Gould.

Occasional visitor.

Grey Heron.

14. Ardea purpurea manilensis
Meyen.
Purple Heron.

Scarce winter visitor, Recent visual records (Edgar, Molesworth, F. G. H. Allen, in litt.).

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Genus Butorides Blyth

- 15a. Butorides striatus javanicus (Horsf.). Little Green Heron.
- Resident.* Common in the mangrove belt and on muddy beaches, occasionally straying to neighbouring areas.
- 15b. Butorides striatus amurensis Rare vagrant. One record, Schrenck. Siberian Little Green Heron.
 - January 1921 (de Fontaine).

Genus Ardeola Boie

- 16. Ardeola bacchus (Bp.). Chinese Pond-Heron.
- Scarce winter visitor. Recent visual records (Molesworth 1940, F. G. H. Allen 1948, in litt.).
- 17. Ardeola ibis coromanda (Bodd.). Cattle Egret.
- Winter visitor. Common in suitable localities, October-March.

Genus Egretta T. Forster

- Egretta alba modesta (Gray). Winter visitor, in small numbers, November-
 - April; stragglers to early May (Bromley, in litt.).
- Egretta g. garzetta (Linn.). Winter-visitor, very small numbers, October-March.
 - Found with No. 18, but less numerous except in the autumn months.
- 20. Egretta eulophotes (Swinh.). Rare vagrant. Only record for Malaya, Seletar, 29 September, 1940 (Molesworth; see Gibson-Hill, 1949a: 99).

Genus Demigretta Blyth

- 22. Demigretta sacra (Gmel.). Reef Heron.
- Resident, in small numbers. Seen mostly on rocky offlying islets, but occasionally on suitable shores on Singapore itself.

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Genus Nycticorax T. Forster

23. Nycticorax n. nycticorax (Linn.).
Night Heron.

Rare vagrant. One formal record; imm. 3, Ponggol, 13 December, 1915 (See Robinson and Chasen, 1936: 188). Visual record, December 1948 (F. G. H. Allen, in litt.).

Genus Gorsachius Bonaparte

24. Gorsachius m. melanolophus Scarce winter visitor.
(Raffles).
Tiger Bittern.

Genus Ixobrychus Billberg

25. Ixobrychus s. sinensis (Gmel.). Yellow Bittern. Winter visitor, very small numbers, October-March. Chasen (1922: 95) says common, but this is not so now.

26. Ixobrychus cinnamomeus (Gmel.). Chestnut Bittern. Resident,* in small numbers. Augmented by winter visitors and not uncommon in suitable localities October-March.

Genus Dupetor Heine & Reichenow

28. Dupetor f. flavicollis (Lath.). Scarce winter visitor.

Black Bittern. Recent visual record (Molesworth, 1940, in litt.).

Genus Botaurus Stephens

29. Botaurus s. stellaris Linn. Great Bittern. Rare vagrant. One record, autumn 1908 (nat. coll.).

Genus Leptoptilos Lesson

34. Leptoptilos javanicus (Horsf.). Lesser Adjutant. Occasional visitor. Kelham (1882: 190) says that a pair were resident at Tanglin when he was stationed there. Unconfirmed report of breeding on outskirts of town about 1938.

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Family Anatidae

Genus Dendrocygna Swainson

36. Dendrocygna j. javanica Non-breeding visitor, in small numbers.

Whistling Teal.

Genus Nettapus Brandt

41. Nettapus c. coromandelianus (Gmel.).
Cotton Teal.

Occasional visitor, encountered less frequently than No. 36 above.

Family ACCIPITRIDAE

Hume (1879: 44) lists Accipiter stevensoni Gurney, quoting Wallace (1868: 216). It seems unlikely that *stevensoni*, if distinct from No. 50 below, has occurred in our area, and the record is assumed here to be based on an erroneous identification of a specimen of A. virgatus gularis (Temm. & Schleg.).

Genus Elanus Savigny

42. Elanus c. caeruleus Scarce winter visitor. (Desfont.). . Blackwinged Kite.

Genus Aviceda Swainson

45. Aviceda leuphotes (Dumont). Scarce winter visitor, seen occasionally in small flocks, November-March.

Genus Pernis Cuvier

46a. Pernis apivorus ptilorhyncus Occasional visitor. (Temm.).
Resident Honey-Buzzard.

46b. Pernis apivorus orientalis Tacz. Siberian Honey-Buzzard.

Winter visitor, in small numbers, reported December-February.

Genus Milvus Lacépède

47. Milvus migrans govinda Sykes. Pariah Kite.

Rare vagrant. One formal record, 21 October, 1879 (Kelham). Two unconfirmed visual records, winter 1948-49 (F. G. H. Allen, Bromley, in litt.).

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Genus Haliastur Selby

- 48. Haliastur indus intermedius Gurney. Brahminy Kite.
- Resident.* Common in coastal areas; probably the most numerous hawk on the island.

Genus Accipiter Brisson

- 49. Accipiter badius poliopsis (Hume). Shikra.
- Rare vagrant. One formal record, 13 December, 1891 (c.n.k.).
- 50. Accipiter soloensis (Horsf.). Chinese Goshawk.
- Scarce winter visitor. Formal records in R.M.; 9, May 1924 (c.n.k.), and a mounted skin without precise data.
- 52. Accipiter virgatus gularis (Temm. & Schleg.). Japanese Sparrow-Hawk.
- Winter visitor, usually in small numbers, Septem-Immature ber-April. birds fairly common October-November some years.

Genus Butastur Hodgson

- Butastur indicus (Gmel.). Greyfaced Buzzard.
- Scarce winter visitor. R.M. formal record. 1899 (c.n.k.).

Genus Spizaëtus Vieillot

- Spizaëtus nipalensis alboniger Occasional visitor, mostly (Blyth)1. Mountain Hawk-Eagle.
 - immature birds.
- Spizaëtus cirrhatus limnæe- Resident,* in small num-tus Horsf. Seen mostly near Changeable Hawk-Eagle.
 - woodland.

Stresemann (1938: 425-31) revives Spizaëtus nanus Wallace (Ibis, 1. Stresemann (1938: 425-31) revives Spizaëtus nanus Wallace (Ibis, 1868: 14, pl. 1), type locality Borneo, and considers it distinct from S. alboniger which he treats as a species. If this is so it is presumably the commoner S. nanus which is resident in hill country in Malaya and occasionally strays southwards to Singapore. Unfortunately the Raffles Museum series is very brief (see Gibson-Hill, 1949a: 104-5), and Stresemann (427) includes a bird said to have been taken by Davison in Singapore, 29 November, 1877 (B.M. coll. 85. 8. 19. 1471), in his list of the examples of S. alboniger known to him. For the present the arrangement of Peters (1931: 249), Chasen (1935: 74) and Gibson-Hill (1949b: 39) is therefore followed here.

Genus Hieraaëtus Kaup

- 57. Hieraaëtus pennatus (Gmel.). Rare vagrant. Two formal records in R.M.; January 1889 (c.n.k.); no precise data (c.n.k.): also turned in by Davison (Hume,
- 58. Hieraaëtus kienerii formosus Stres.
 Rufousbellied Hawk-Eagle.
 Rufousbellied Hawk-Eagle.

 1879: 44).
 Rare vagrant. Two formal records in R.M.; August 1891 (c.n.k.); May 1925 (c.n.k.). Chasen (1927: 103) says that it occasionally turns up in

Genus Haliæetus Lesson

Singapore.

60. Haliæetus leucogaster (Gmel.).
Whitebellied Sea-Eagle.

Resident,* fairly plentiful near and on the coast.
The most numerous of the larger hawks on Singapore Island.

Genus Icthyophaga Lesson¹

62. Icthyophaga n. nana (Blyth).

Lesser Fishing-Eagle.

Rare vagrant. At least two old records; the type (Blyth, 1842: 202) and Strickland (1845: 66).

Might still occur here.

Genus Circus Lacépède

- 66. Circus c. cyaneus (Linn.). Rare vagrant. Only record for Malaya, near Paya Lebar, January 1948 (Perreau).
- 67. Circus melanoleucus (Penn). Scarce winter visitor.
 Pied Harrier. Recent record, November 1940 (Molesworth).

Genus Spilornis G. R. Gray

71. Spilornis cheela bassus Resident, very small (Forst.) numbers.
Serpent Eagle.

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^{1.} F. G. H. Allen saw a bird which must be taken to be No. 61, Icthyophaga i. ichthyaetus (Horsf.), the Greyheaded Fishing-Eagle, off Loyang, at the east end of the island, on 15 November 1949, while this list was being set up. The pale head and white basal portion of the tail were clearly visible.

Family PANDIONIDAE

Genus Pandion Savigny

72. Pandion haliaetus (Linn.), Occasional visitor.
subsp. Singapore specime

ccasional visitor. No Singapore specimens available for examination. Both the northern race P. h. haliaetus (Linn.) and the Australian P. h. cristatus (Vieill.) reach Malaya, and probably both occur in our area.

Family FALCONIDAE

Genus Microhierax Sharpe

73. Microhierax fringillarius Resident, small numbers.
(Drap.).
Falconet.

Genus Falco Linné

- Falco peregrinus calidus Lath. Scarce winter visitor. Peregrine Falcon.
- 75. Falco tinnunculus Linn. Scarce winter visitor, subsp.

 Kestrel.

. Family Phasianidae

The B. M. cat. also lists skins, said to be from Singapore, ascribable to the following birds,

- (77) Melanoperdix n. nigra (Vigors)— & & ♀, Purchased.
- (83) Houppifer e. erythrophthalmus (Raffles)— 5, Gould Coll.

Gallus varius (Shaw & Nodd.)— \$, Cantor, per Indian Museum.

- (86) Polyplectron malacensis (Scop.)— & & imm. 9, Hume Coll.
- (89) Argusianus a. argus (Linn.)— & & ♀, Hume Coll.

Any, or possibly all, except *Gallus varius* might have been on Singapore Island before the latter part of the last century, but it is certain that these birds are not here now in a feral state. Accordingly they are omitted from the present list.

Genus Excalfactoria Bonaparte

78. Excalfactoria c. chinensis
(Linn.).

Bluebreasted Button-Quail.

Resident.* Fairly common in open settled country, but less numerous than No. 91a below.

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Family TURNICIDAE

Genus Turnix Bonnaterre

91a. Turnix suscitator atrogularis (Eyton).

Barred Bustard Quail.

Resident.* Fairly common in open country where there is much high grass; also enters cultivated areas.

Family RALLIDAE

Genus Rallus Linné

93. Rallus striatus gularis Horsf. Resident.* Fairly plentiful in the mangrove belt and in lalang and scrub near water inland. The commonest rail on the island.

Genus Rallina G. R. Gray

94. Rallina fasciatus Raffles.
Malay Banded Crake.

Winter visitor, small numbers, in open country; a few birds probably breeding here.

95. Rallina eurizonoides nigralineata (G. R. Gray).

Philippine Banded Crake.

Philippine Banded Crake.

Rare vagrant. One formal record, B.M. cat. (Gould Coll.); provenance not above suspicion but the bird is a rare winter visitor to the Malay Peninsula as a whole.

Genus Porzana Vieillot

97. Porzana f. fusca (Linn). Resident,* in very small numbers, in open country.

Genus Poliolimnas Sharpe

99. Poliolimnas c. cinereus (Vieillot). Resident,* in small numbers, in open swampy country.

Genus Amaurornis Reichenbach

100b. Amaurornis phoenicurus javanica (Horsf.).

Whitebreasted Water-Hen.

Resident.* Fairly common in lalang wastes, and light open scrub near fresh water, and in the mangrove belt.

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Genus Gallicrex Blyth

101. Gallicrex cinerea (Gmel.) Watercock.

Scarce winter visitor. Visual records as late as 2 May (F. G. H. Allen); an immature bird taken early August (Moles-worth).

Genus Gallinula Brisson

102. Gallinula chloropus orientalis Rare vagrant. One recent Horsf. Moorhen.

record, October 1922 (Sworder).

Genus Porphyrio Brisson

103. Porphyrio poliocephalus viri- Rare vagrant. One record, dis Begbie. Purple Coot.

an immature bird shot at Paya Lebar, 1940 (Molesworth, in litt.).

Family JACANIDAE

Genus Hydrophasianus Wagler

105. Hydrophasianus chirurgus Occasional visitor. (Scop.). Pheasant-tailed Jacana.

Family ROSTRATULIDAE

Genus Rostratula Vieillot

(Linn.). Painted Snipe.

107. Rostratula b. benghalensis Resident, very small numbers. Probably much more numerous formerly.

Family CHARADRIIDAE

Genus Lobivanellus G R. Gray

108. Lobivanellus indicus atronu- Occasional visitor; or poschalis Jerd. Redwattled Lapwing.

sibly a few pairs still resident? Seen winter 1940/41 (Molesworth, in · litt.).

Genus Squatarola Cuvier

109. Squatarola squatarola (Linn.). Grey Plover.

Scarce winter visitor, October-March. Mostly on open muddy or sandy shores.

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Genus Pluvialis Brisson

- 110. Pluvialis dominica fulva (Gmel.).
 - Eastern Golden Plover.

Winter visitor, September-April, numerous on muddy shores of all kinds. Also frequents suitable open grassland. Earliest arrivals late August; individual records to 25 May.

Genus Charadrius Linné

111a. Charadrius dubius curonicus Winter visitor, September Gmel.

Little Ringed Plover.

- to early April. Widespread in small numbers on open grassland and, more rarely, sheltered shores.
- 112. Charadrius a. alexandrinus Scarce winter visitor. Only Linn. Kentish Plover.

recent formal record, 2 9 9, Kalang mud-flats, 5 November, 1922 (de Fontaine).

114. Charadrius mongolus atrifrons Wagl. Lesser Sand-Plover.

Winter visitor, late August to April or May. Common on mudflats, muddy shores and in sandpits.

115. Charadrius leschenaultii Less. Large Sand-Plover.

Winter visitor, in moderate numbers, seen mostly on sandy shores, but occasionally on mud.

Genus Eupoda J. F. Brandt

116. Eupoda veredus (Gould). Caspian Plover.

Rare vagrant. One record, two birds April 1898 (nat. coll.).

Family Scolopacidae

The early records for Malaya, including Singapore Island, of "Tringa minuta" (Hume et al.) are here taken to refer to No. 139, the Rednecked Stint, Erolia ruficollis (Pall.); certainly the Little Stint cannot be accepted for our area: Chasen (1923: 94) lists No. 134, the Common Snipe, Capella g. gallinago (Linn.), for Singapore. It almost certainly occurs as a very rare vagrant, but I cannot trace any formal records and it is not included on the present list. No. 129, the Greyrumped Tatler, Heteroscelus brevipes (Vieill.), is also omitted. The only record for Malaya is Sultan Shoal, 11th September, 1923 (A. W. Hamilton). There

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is no doubt of the validity of the record, but Sultan Shoal is not strictly a part of Singapore Island; as birds known from Pulau Ubin but not from Singapore Island are not included here it is only consistent to exclude the Sultan Shoal birds. The Laridae listed below (Nos. 148 et seq.) have all been taken at one time or another on the Singapore coast, or on the fishing stakes built off it.

Genus Numenius Brisson

- Numenius phaeopus variega-tus (Scop.).
 Winter visitor, September-April, fairly common on tus (Scop.). Eastern Whimbrel.
- 118. Numenius arquata orientalis Brehm. Eastern Curlew.
- 119. Numenius madagascariensis (Linn.). Australian Curlew.

muddy shores and occasionally in mangrove creeks, sandpits and on open grassland.

Winter visitor, September-April, in small numbers, mostly seen on open mud flats and beaches.

Rare 'vagrant. Party of 3 birds seen 5 occasions October-December 1948 (F. G. H. Allen); no formal record.

Genus Limosa Brisson

- 120. Limosa limosa melanuroides Winter visitor, September-Gould. Eastern Blacktailed Godwit.
- 121. Limosa lapponica baueri Naum.

Eastern Bartailed Godwit.

April, small numbers, seen mostly in mud creeks in mangrove belt or on open mudflats.

Rare vagrant. One formal record, Changi, 23 No-vember ?1879 (Hume, 1880: 118: and B.M. cat, Davison coll.); seen Geylang River Diversion, 5 December, 1948 (F. G. H. Allen).

Genus Tringa Linné

122. Tringa totanus (Linn.) subsp. Redshank.

inter visitor, mostly September-March, some Winter August-May, numerous on coastal mudflats and in mangrove areas, and present smaller numbers on sandy beaches; one of the commonest of the visiting waders.

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- 123. Tringa stagnatilis (Bechst.). Scarce passage migrant.

 Formal records, October 1910 and April 1911 (both nat. coll.). Several visual records October-November (Bromley et al.).
- 124. Tringa nebularia Gunn.

 Greenshank.

 Winter visitor, probably
 October-March, in very
 small numbers; seen
 mostly on mud,
- 125. Tringa glareola Linn.
 Wood Sandpiper.
 Winter visitor, September-April, plentiful, mostly on damp, flat land near the coast, or in muddy channels in mangrove.

Genus Xenus Kaup

127. Xenus cinereus (Güld.).

Avocet-Sandpiper.

Winter visitor, SeptemberMarch or April, in fairly
small numbers, mostly
seen on mudflats or muddy channels in mangrove.

Genus Actitis Illiger

128. Actitis hypoleucos (Linn.).

Common Sandpiper.

Winter visitor, mostly
September-April, some
August-May, common
and wide-spread. Usually
single or in very small
parties, but seen almost
everywhere on the edge
of water.

Genus Arenaria Brisson

130. Arenaria i. interpres
(Linn.).
Turnstone.

Winter visitor, probably
September-April, in very
small numbers, mostly
seen on rocky shores.

Genus Capella Frenzel

132. Capella stenura (Bp.).
Pintail Snipe.

Winter visitor, September-April, fairly common in suitable areas, especially open scrub and rough land.

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133. Capella megala (Swinh.). Swinhoe's Snipe.

Scarce winter visitor, probably occurring in proportion of 1-200 or 1-250 wherever No. 132 is found. Only formal record April 1941 (Molesworth).

Genus Calidris Merrem

136. Calidris c. canutus (Linn.). Knot.

Rare vagrant. Only re-cord for Malaya, November 1940 (Molesworth).

Genus Erolia Vieillot

139. Erolia ruficollis (Pall.). Winter visitor, September Rednecked Stint.

to early April, small numbers, muddy and sandy shores. Latest date 18 May (Moles-worth). Early records (Hume et al.) of "Tringa minuta" probably refer to this bird.

141. Erolia subminuta (Middend.). Longtoed Stint.

Winter visitor, September to beginning of April, occurring on both muddy and sandy shores. Common, and much more numerous in our area than No. 139.

142. Erolia testacea (Pall.). Curlew-Sandpiper.

Largely a passage mi-grant, August-October and March-April, small numbers, mostly seen on coastal mudflats; a few birds remain all through the winter.

Genus Limicola Koch

143. Limicola falcinellus sibirica Scarce winter visitor. Only Dress. Broadbilled Sandpiper.

recent formal record, Kalang River 1909 (Ah Wong).

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Family RECURVIROSTRIDAE

Genus Himantopus Brisson

145. Himantopus h. himantopus Rare vagrant. Only certain formal record for Blackwinged Stilt. Rare vagrant. Only certain formal record for Malaya, November 1918

Family GLAREOLIDAE

Genus Glareola Brisson

147. Glareola maldivarum (Forst.). Eastern Pratincole.

Passage migrant, some-times fairly plentiful September - November, less numerous February-March; a few birds may remain all through the winter.

Family LARIDAE

Genus Larus Linné

148. Larus ridibundus Linn. Scarce winter visitor, Blackheaded Gull.

Singapore Strait. Formal records 16 December, 1925 (F. de Souza), 26 January, 1948 (F. G. H. Allen); several visual records.

Genus Chlidonias Rafinesque

149. Chlidonias leucoptera (Temm.). Whitewinged Black Tern.

Rare vagrant, Formal record, 6 December, 1941 (Chasen).

Genus Gelochelidon C. L. Brehm

150. Gelochelidon nilotica affinis Rare vagrant. One formal (Horsf.). ε Gullbilled Tern. Rare vagrant. One formal record, ε , 27 October, 1913 (c.n.k.).

Genus Sterna Linné

153. Sterna s. sumatrana Raffles. Resident* in very small numbers. Augmented by winter visitors and then present in small numbers along whole length of Singapore Strait.

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154. Sterna a. anaethetus Scop. Occasional visitor to local waters. Winter visitor, at times fairly common, both ends of Singapore Bridled Tern. Strait.

Genus Thalasseus Boie

- 156. Thalasseus bergii cristatus Winter visitor, fairly plentiful, whole length of Singapore Strait; the commonest tern in this area. Settles freely on fishing stakes.
- 157. Thalasseus b. bengalensis Winter visitor, small num-(Less.). bers, whole length of Lesser Crested Tern. Singapore Strait. Seen with No. 156 above.

Family Columbidae

Genus Treron Vieillot

- 163. Treron c. curvirostra Resident, small numbers, (Gmel.). occurring mostly in heavily wooded areas; local movements in Lesser Thickbilled Green Pigeon. autumn and winter.
- 164. Treron f. fulvicollis (Wagl.). Rare vagrant, Only formal records, May 1899 (Abbott, quoted Riley 1938: Cinnamonheaded Green Pigeon. 102), and undated (Chasen, 1925: 72).
- Treron o. olax (Temm.). Little Green Pigeon.
- 166. Treron vernans griseicapilla Resident;* plentiful in (Schleg.). Pinknecked Green Pigeon.
- Resident, small numbers.
 - suitable localities and the commonest pigeon here as elsewhere in the lowlands of Malaya.

Genus Ptilinopus Swainson

168. Ptilinopus jambu (Gmel.). Scarce winter visitor, re-Pinkheaded Fruit-Dove. ported from both coastal mangrove and Bukit Timah Forest Reserve.

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Genus Ducula Hodgson

169. Ducula aenea polius Oberh.

Resident, small numbers in coastal districts.

Green Imperial Pigeon.

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Occasional visitor, reaching the west end of the island

170. Ducula bicolor (Scop.). Pied Imperial Pigeon.

and adjacent islets at wide intervals.

Genus Streptopelia Bonaparte

Two adult males of No. 174, the Burmese Red Turtle-Dove, Streptopelia transquebarica humilis Temm.), were taken on Singapore Island, December 1940 (Clunies-Ross), but they must have been birds that had escaped from captivity.

175. Streptopelia chinensis tig- Resident,* plentiful in most rina (Temm.). Spotted Dove.

kinds of dry open country, including garden areas.

. Genus Geopelia Swainson

176. Geopelia striata striata (Linn.). Barred Ground-Dove.

Resident,* fairly common in most open areas, but less often seen near human habitations.

Genus Chalcophaps Gould

(Linn.). Emerald Dove.

177. Chalcophaps i. indica Resident, in small numbers in heavily wooded areas.

Family PSITTACIDAE

Three males of the Redbreasted Paroquet, Psittacula alexandri (Linn.) were seen on several occasions on Changi Promontory, August 1943 (Spittle, MS note); certainly escaped birds.

Genus Psittacula Cuvier

179. Psittacula I. longicauda (Bodd.). Longtailed Paroquet,

Resident, small numbers in wooded areas; formerly common (Kelham, 1881: 387).

Genus Psittinus Blyth

180. Psittinus c. cyanurus (Forst.). Little Malay Parrot.

Resident, small numbers in wooded areas.

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Genus Loriculus Blyth

181. Loriculus g. galgulus (Linn.).
Malay Loriquet.

Resident, very small numbers in lightly wooded areas.

Family CUCULIDAE

The Japanese Cuckoo, C. canorus telephonus Heine, is said to have been taken here (Chasen, 1923: 99), but I cannot trace the record, and the bird is not at present admitted to the Malayan list. No. 189a, the Banded Bay Cuckoo, Penthoceryx sonneratii malayanus Chas. and Kloss, and No. 189b, the Sumatran Bay Cuckoo, P. s. fasciolatus (S. Müll.), have been taken on Pulau Ubin, but there are as yet no formal records for Singapore Island.

There are old records (B.M. cat.) for Singapore Island. Raffles's Malkoha, Rhinortha chlorophaea (Raffles) and No. 202, the Redbilled Malkoha, Zanclostomus javanicus pallidus Rob. and Kloss, both of which occur fairly widely on the mainland, but there are no other reports of their presence here. It would seem that even if they did occur formerly they are no longer on the island. No. 203, the Chestnutbreasted Malkoha, Rhamphococcyx curvirostris erythrognathus Bp., might well be present, but there are no formal records for it; it has been reported from Pulau Langkawi, Penang Island and Tioman.

Genus Clamator Kaup

182. Clamator coromandus (Linn.). Redwinged Crested Cuckoo.

Winter visitor, small numbers, November-March.

Genus Cuculus Linné

183a. Cuculus s. sparverioides (Vig.).

Large Hawk-Cuckoo.

185a. Cuculus fugax nisicolor (Blyth). Himalayan Hawk-Cuckoo.

186. Cuculus m. micropterus Gould. Indian Cuckoo.

Genus Cacomantis S. Müller
190a. Cacomantis merulinus threnodes Cab. & Heine.
Brain-fever Bird.
Resident*
visitor,

Winter visitor, small numbers; recorded October-January; probably occurs

Scarce winter visitor.

over a wider period. Rare vagrant. One formal record, September (Kelham, 1881: 390).

S. Müller
Resident* and winter
visitor, in small numbers
in lightly wooded areas,
including gardens and
orchards; more numerous
during the winter
months.

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 Cacomantis variolosus sepul- Resident, small numbers. cralis (S. Müll.).
 Fantailed Cuckoo.

Genus Chalcites Lesson

193. Chalcites x. xanthorhynchus Resident, small numbers.
(Horsf.). Possibly augmented by winter visitors.

194. Chalcites basalis (Horsf.). Rare vagrant. One formal Bronze Cuckoo. record (c.n.k., no data).

Genus Surniculus Lesson

196b. Surniculus lugubris barussarum Oberh. Resident Drongo-Cuckoo. Resident Drongo-Cuckoo.

Genus Eudynamys Vigors and Horsfield

197b. Eudynamys scolopacea malayana Cab. & Heine. Winter visitor, small numbers. Malayan Koel.

Genus Rhopodytes Cabanis & Heine

198. Rhopodytes d. diardi Resident, small numbers in heavily wooded country.

Lesser Greenbilled Malkoha.

199. Rhopodytes s. sumatranus Resident. Fairly common (Raffles). in the more heavily Rufousbellied Malkoha. wooded areas.

Genus Centropus Illiger

205b. Centropus sinensis eurycercus Blyth. Large Crow-Pheasant.

Resident.* Common in open country with a vegetation of lalang and melastoma.

206. Centropus bengalensis java- Resident.* Plentiful in nensis (Dum.). open lalang covered country.

Family TYTONIDAE

Genus Tyto Billberg.

207. Tyto alba javanica (Gmel.). Rare vagrant. One certain formal record in R.M.
1889 (c.n.k.); second doubtful, January 1931 (purchased skin).

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Genus Phodilus G. St Hilaire

Phodilus b. badius (Horsf.). Rare vagrant. One formal record (see Robinson, 1928; 34).

Family STRIGIDAE

Chasen (1939: 63) includes Singapore in the range of the Wood-Owl, Strix s. selo-puto Horsf. It is a scarce resident in the northern Malay States, and has certainly been taken as far south as Temerloh, in Pahang (nat. coll.), but an unsupported alaim for Singapore Island must be regarded as dubious (see claim for Singapore Island must be regarded as dubious (see Checklist, No. 220). Robinson (1910: 7) lists a specimen of the Longeared Owl, Asio otus Linn., said to have been taken in Singapore a number of years previously. It is no longer extant, but must presumably have been the Asio sp. collected by Ridley in the Botanic Gardens about 1900, and then identified as A. flammeus (Ridley, 1901: 105). There is little doubt that it was actually an example of this bird, No. 222 below, which occurs here as a rare vagrant.

Genus Otus Pennant

212. Otus scops malayanus Probably resident in very (Hay.). small numbers. Lesser Scops Owl.

Otus bakkamoena lempiji Resident.* Common in open wooded areas. Collared Scops Owl.

Genus Bubo Dumeril

214. Bubo s. sumatrana (Raffles). Occasional visitor. Formal Eagle Owl. records in R.M.; July 1893 (c.n.k.) and June 1925 (c.n.k.).

Genus Ketupa Lesson

217. Ketupa k. ketupu (Horsf.). Resident, small numbers. Fish Owl.

Genus Ninox Hodgson

219c. Ninox scutulata malaccensis Resident.* Fairly common, but less numerous than Malayan Hawk-Owl. No. 213.

Genus Asio Brisson

222. Asio f. flammeus (Pont.). Rare vagrant. Two recent Shorteared Owl. formal records, January 1930 (purchased skin), and November 1940 (Molesworth).

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Family PODARGIDAE

The B.M. cat. lists a skin of Gould's Frogmouth, B. stellatus (Gould), No. 224, said to have come from Singapore (Gould coll.): it seems most unlikely that the bird is actually on the island.

Family CAPRIMULGIDAE

Genus Eurostopodus Gould

226. Eurostopodus temminckii Gould. Resident; common in open country, away from the town.

Genus Caprimulgus Linné

229. Caprimulgus macrurus bimaculatus Peale. Resident;* common, occurring in the larger gardens as well as open country.

Family APODIDAE

Genus Collocalia G. R. Gray

233b. Collocalia francica javensis
Stres. 1.
Greyrumped Swiftlet.

Resident,* small numbers;
breeding Robinson Road,
near the centre of the

235. Collocalia esculenta cyanop- Resident, small numbers. tila Oberh. Whitebellied Swiftlet.

Genus Hirund-Apus Hodgson

237. Hirund-apus g. gigantea (Temm.).
Spinetail Swift.
Occasional visitor. Resident in small numbers on the islands adjacent to Singapore.

Genus Chaetura Stephens

238. Chaetura leucopygialis Resident, in small numbers.
(Blyth).
Greyrumped Spinetail
Swift.

Stresemann, Bull. Raff. Mus., 6, 1931, pp. 89-90. Listed as C. f. amechana Oberh. in the Malayan checklist (op. cit., 20, 1949). Following further correspondence with Dr. Stresemann I would now place the Singapore and southern Peninsula birds as javensts not amechana.

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Genus Apus Scopoli

239. Apus pacificus (Lath.). subsp.

Immigrant Swift.

Winter visitor, small numbers. No formal records on which to determine the subspecies

240. Apus affinis subfurcatus (Blyth). House-Swift.

Checklist, p. 112) Resident.* Plentiful in inhabited areas.

Genus Cypsiurus Lesson

Cypsiurus parvus infumatus Resident.* Moderately com-241. (Sclat.). mon in coastal districts Palm Swift. and adjacent areas.

Family HEMIPROCNIDAE

Genus Hemiprocne Nitzsch

242. Hemiprocne longipennis har- Resident.* Common and terti Stres. Crested Tree-Swift.

widely spread in lightly wooded areas and tree-studded open country.

243. Hemiprocne c. comata (Temm.). Whitewhiskered Tree-Swift.

Resident, in small numbers in or near forest country.

Family TROGONIDAE

There are old records for Singapore Island, established by specimens in the B.M. cat., for three trogons,

(244) Harpactes k. kasumba (Raffles)-Hume coll. (also in Hume 1879: 48).

(245) H. diardii sumatranus Blas.-Hume & Gould coll. (also Hume, loc. cit.).

(246) H. o. orrhophaeus (Cab. & Heine)-Gould coll. (locality queried).

The first two at least are resident in small numbers, on Pulau Ubin, but it is extremely unlikely that they are still on Singapore Island. There do not appear to be any records more recent than those in the B.M. cat., and the birds are accordingly not listed

Family ALCEDINIDAE

Four of the kingfishers given below, Nos. 253, 256, 257 and 262, are certainly resident in parts of the Malay States, but they would seem to be only visitors to our area. The fifth visitor, No. 260, the Blackcapped Kingfisher, may possibly be breeding in the

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northern states, but at present is known formally in the Malay Peninsula only from October to the beginning of May; during this period it is fairly common in all suitable localities.

Genus Alcedo Linné

250. Alcedo atthis bengalensis Resident in small numbers; Gmel.

Indian Common Kingfisher.

- augmented by winter visitors, October-March, and then plentiful in coastal mangrove areas.
- 251. Alcedo meninting verrauxii De La Berge. Deepblue Kingfisher.
- Resident, in very small numbers, found near and in the more heavily wooded areas.

Genus Ceyx Lacépède

- Ceyx e. erithacus (Linn.). Scarce winter visitor. Blackbacked Kingfisher.
- 254. Ceyx r. rufidorsum Strickland. Redbacked Kingfisher.
- Resident in very small numbers, Bukit Timah area.
- Genus Pelargopsis Gloger 256. Pelargopsis capensis malac. Winter visitor, small numbers; more numerous on the larger off-lying censis (Sharpe). Storkbilled Kingfisher. islands

Genus Lacedo Reichenbach

257. Lacedo p. pulchella (Horsf.). Scarce winter visitor. Banded Kingfisher.

Genus Halcyon Swainson

258b. Halcyon coromanda minor Resident, in small numbers, (Temm, and Schleg.).

Ruddy Kingfisher. Halcyon smyrnensis fusca (Bodd.). Whitebreasted Kingfisher.

- 260. Halcyon pileata (Bodd.). Blackcapped Kingfisher.
- 261. Halcyon chloris humii Sharpe. Whitecollared Kingfisher.
- in mangrove areas.
- Resident,* plentiful in open country, orchards and gardens; the commonest kingfisher in our area.
- Winter visitor, fairly common, October-March.
- Resident,* very common in the mangrove belt and adjacent districts; well known in gardens up to 3-4 miles from the sea.

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262. Halcyon c. concreta (Temm.). Chestnutcollared Kingfisher.

Occasional visitor.

fairly stanti publis record for m yet er

Family MEROPIDAE

Genus Merops Linné

264. Merops superciliosus philip- Winter visitor, September 265.

Brownbreasted Bee-eater. Merops v. viridis Linn. Bluethroated Bee-eater.

to early April, plentiful

in open country.

Resident,* common in open country; subject to seasonal movements, and seemingly less numerous in some areas during winter months.

(1881)No. Tima Mala 288, No. subse the

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Family Coraciidae

Genus Eurystomus Vieillot

268a. Eurystomus o. orientalis (Linn.). Broadbilled Roller

dus Ripley.

268b. Eurystomus orientalis abun-Chinese Broadbilled Roller.

Resident in small numbers, seen mostly in clearings on the edge of heavily wooded areas; probably augmented by winter visitors, October-April. Winter visitor. Fairly com-

mon in open country and the same habitats as No. 268a above, from late October to April.

Family BUCEROTIDAE

It does not seem likely that a hornbill occurs in our area at the present time, but three species have been recorded from Singapore Island. No. 277, Anthracoceros coronatus convexus (Temm.), the Southern Pied Hornbill, is given by Wallace (1855: 98; quoted Salvadori, 1874: 81), No. 278, Buceros r. rhinoceros Linn., the Rhinoceros Hornbill, is reported by Diard (fide Schlegel, 1862: 4) and Ridley (1898: 78), and No. 280, Rhinoplax vigil (Forst.), the Helmeted Hornbill, occurs in the B.M. cat. (c.n.k.). If a feral hornbill is still found here it is most likely to be No. 277, the Southern Pied Hornbill, which is also mentioned by Kelham and again by Ridley (1898: 78), or possibly No. 275, Anthracoceros malayanus (Blyth), the Black Hornbill, which is

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fairly common in south Johore, but there have been no circumstantial records of a hornbill on Singapore Island since Ridley published his note, over fifty years ago. There are also old records of hornbills for Penang, but J. Cairns who has been there for more than twenty-five years says (in litt.) that he has not yet encountered one on the island.

Family CAPITONIDAE

There are old records for three additional barbets. Kelham (1881: 390) says that he encountered the Coppersmith Barbet, No. 290, Megalaima haemacephala indica (Lath.) near Bukit Timah, but there are no recent records south of the territory of Malacca. Hume (1879: 53) lists the Yellowcrowned Barbet, No. 288, M. h. henrii (Temm.), and the B.M. cat. the Gaudy Barbet, No. 285, M. m. mystacophanos (Temm.); again there are no subsequent records for Singapore Island and it would seem that the birds are not here now.

Genus Megalaima G. R. Gray

284. Megalaima rafflesii malayen- Resident. Present in small sis (Chas.).

Many-coloured Barbet.

numbers, mostly in thickly wooded country. Common on Pulau Ubin.

289. Megalaima australis duvau- Resident, in small numbers, in thickly wooded areas Little Barbet.

round Bukit Timah.

Genus Calorhamphus Lesson

291. Calorhamphus fuliginosus hayii (J. È. Gray). Brown Barbet.

Resident, Not uncommon in swampy coastal jungle.

Family PICIDAE

There is a B.M. cat. record for No. 315, the Maroon Wood-pecker, Blythipicus rubiginosus (Swains.), Lord Ellenborough and Gould coll., but it has not been reported subsequently.

Genus Micropternus Blyth

295. Micropternus brachyurus squamigularis (Sundev.). Rufous Woodpecker.

Resident* in wooded areas. Certainly scarce now, but apparently formerly fairly common in the old Botanic Gardens.

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Genus Picus Linné

Genus Picus	Linne	
297b. Picus v. vittatus (Vieill.). Bamboo Green Woodpecker.	Resident, in small numbers. Seen mostly among casuarinas and mangrove in the coastal zone, particularly on the north side of the island.	310.
300. Picus puniceus continentis (Rob. and Kloss). Crimsonwinged Woodpecker.	Resident. Occurs locally in small numbers in some of the less disturbed wooded areas.	311.
302. Picus mentalis humii (Harg.). Checkerthroated Woodpecker.	Resident. Not very com- mon; occurs both in the mangrove zone and Bukit Timah forest reserve.	312.
303. Picus miniaceus malaccensis (Lath.). Banded Red Woodpecker.	Resident. Small numbers, seen mostly in or near the mangrove zone; also reported from Bukit Timah Forest Reserve.	313.
Genus Dinopium	Rafinesque	
304. Dinopium j. javanense (Ljungh). Goldenbacked Threetoed Woodpecker.	Resident. Common, occurring mostly in cultivated areas.	316.
305. Dinopium rafflesii peninsu- lare (Hesse.). Olivebacked Threetoed Woodpecker.	Resident. Locally distri- buted, in small numbers, in thickly wooded areas.	317
Genus Meiglyptes	Swainson	
307. Meiglyptes tristis grammi- thorax (Malh.). Fulvousrumped Woodpecker.	Resident. Occurs mostly in thickly wooded areas; not numerous.	
308. Meiglyptes t. tukki (Less.). Buffnecked Woodpecker.	Resident. Occurs in wooded areas away from the coast; not plentiful.	Yell the
Genus Mülleripicus		but
309. Mülleripicus p. pulverulentus (Temm.). Great Slaty Woodpecker.	Resident. Seen mostly in swampy, wooded areas near the coast; not common.	specific seed ing
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Genus Dryocopus Boie

310. Dryocopus j. javensis Resident, but rather scarce.

(Horsf.).

Great Black Woodpecker.

Genus Dendrocopos Koch

311. Dendrocopos canicapillus auritus (Eyton).

Pygmy Woodpecker.

Resident, in very small numbers; seen mostly in open wooded areas.

312. Dendrocopos m. moluccensis (Gmel.).

Lesser Pygmy Woodpecker. Resident.* Common in some coastal areas; frequents gardens in parts of the suburbs.

Genus Hemicircus Swainson

313. Hemicircus concretus sordidus (Eyton). Grey-and-Buff Woodpecker.

Genus Chrysocolaptes Blyth

316. Chrysocolaptes validus xanthopygius Finsch.
Orangebacked Woodpecker.

Resident, but very scarce;
most likely to be seen
in heavily wooded areas.

317b. Chrysocolaptes lucidus chersonesus Kloss.
Goldenbacked Fourtoed
Woodpecker.

Goldenbacked Fourtoed
Woodpecker.

Resident, but very rare.
Known in our area only by the paratype and two specimens 16 and 17 May, 1904 (c.n.k., Johore Mus. coll.).

· Family EURYLAIMIDAE

Hume (1879: 50) lists two other broadbills, the Black-and-Yellow Broadbill, No. 322, Eurylaimus o. ochromalus Raffles, and the Dusky Broadbill, No. 324, Corydon s. sumatranus (Raffles), but in neither case are there any subsequent records. The three species given below are now scarce or very rare here and it would seem that the broadbills are among the birds that are disappearing from the island. One (No. 323) may have already gone; the most recent record is over 25 years old.

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Genus Calyptome	ena Raffles	
318a. Calyptomena v. viridis Raffles. Green Broadbill.	Resident, but very rare in our area. Most likely to be seen in the Bukit	332.
oreca production	Timah forest reserve; last reported December 1941. Formerly seen occasionally in the Bo- tanic Gardens (Ridley, 1898: 85).	333.
Genus Cymbirhyn	chus Vigors	-
320. Cymbirhynchus macrorhyn- chos malaccensis Salvad. Black-and-Red Broadbill.	most plentiful of the	335
Genus Eurylaimu	s Horsfield	
323. Eurylaimus javanicus pallidus Chas. Banded Broadbill.	Resident, but very rare; most likely to be encoun- tered in open wooded	337
. Dance Drodom	country.	338
Family Pir	PIDAE	
Genus Pitta	Vieillot	
326. Pitta granatina coccinea Eyton. Redheaded Pitta.	Resident, but not common. Usually frequents swam- py, wooded areas.	34
328. Pitta brachyura cyanoptera Temm. Lesser Bluewinged Pitta.	Winter visitor, November- March; not very plenti- ful.	34
329. Pitta megarhyncha Schleg. Large Bluewinged Pitta.	Resident,* in small num- bers, occurring in the mangrove belt.	34
330. Pitta sordida culcullata	Scarce winter visitor.	3.1
Hartl. Greenbreasted Pitta.		34
Family Hirundin	NIDAE	
Genus Delichon Horsf	ield and Moore.	
331. Delichon urbica dasypus (Bp.). Japanese House-Martin.	Probably a scarce winter visitor. Only one record, Raffles Place, November 1948 (F. G. H. Allen, visual).	34
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E+342H337339HDE398		
	Genus Hirundo Linné	
re in dy to Bukit	332. Hirundo rustica gutturalis Winter visitor, plentiful Scop. Eastern Swallow.	
mber seen Bo- dley,	333. Hirundo tahitica abbotti (Oberh.). Resident Swallow. Resident.* Common, but less numerous than No. 332 above during the winter months.	
	Family Campephagidae	
	Genus Tephrodornis Swainson	
the the ipore	335a. Tephrodornis gularis fretensis Rob. & Kloss. Wood-Shrike. Resident. Formerly occurring in small numbers in the Bukit Timah area, and assumed to be still present.	
	Genus Coracina Vieillot	
rare; coun- oded	337. Coracina striata sumatrensis (S. Müll.). Barred Cuckoo-Shrike. 338a. Coracina fimbriata culminata (A. Hay). Lagran Cross Cook (St. 1).	
	Lesser Grey Cuckoo-Shrike. from the coastal belt.	
imon.	Genus Lalage Boie	
wam-	341. Lalage n. nigra (Forst.). Resident.* Fairly plentiful in open wooded country; often seen in gardens.	
mber- lenti-	Genus Pericrocotus Boie	
num- the	342. Pericrocotus roseus divari- catus (Raffles). Winter visitor, late October to early April, Fairly common.	
	344. Pericrocotus i. igneus Blyth. Resident, but not common. Seen mostly in wooded coastal areas.	
	345b. Pericrocotus flammeus xan- thogaster (Raffles). Resident, in small numbers; found mostly in heavily Scarlet Minivet. wooded areas.	
	Family DICRURIDAE	
vinter ecord.	Genus Dicrurus Vieillot	
ember Allen,	346. Dicrurus annectans (Hodgs.). Winter visitor, fairly common October to March. Crowbilled Drongo.	
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348. Dicrurus aeneus malayensis (Blyth). Bronzed Drongo.	Resident, in small numbers; found mostly in open wooded areas.	
Genus Dissemur	rus Gloger	
350a. Dissemurus paradiseus pla- turus (Vieill.). Large Racquet-tailed Drongo.	Resident. Fairly common in open wooded country; plentiful round the MacRitchie and Peirce reservoirs, and on Bukit Timah.	
Family Orio	DLIDAE	In a
Genus Oriolus	s Linné	teror
351b. Oriolus chinensis maculatus Vieill. Blacknaped Oriole.	Resident.* Plentiful in some areas, especially in gardens and orchards on the outskirts of the town.	Islan are a parti
353. Oriolus x. xanthonotus Horsf. Blackheaded Oriole.	Resident. Very scarce and confined to the thickly wooded areas. Last re- ported in 1941; probably	370. (H
	disappearing from our area.	971
		371.
Family Cor	No. of the Control of	
Genus Platysmurus 358. Platysmurus I. leucopterus (Temm.). Whitewinged Black Jay.		374a 384.
Genus Corvus 359. Corvus m. macrorhynchos Wagl. Largebilled Crow.	s Linné	388.
Family Tima	LUDAE	
There are old records of varying blers. In all instances it would seen is not here now. The records are birds,	ng probity for six other bab- m fairly certain that the bird	395.
(368) Pellorneum capistratur B.M. cat. (Wallace o		
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(379) Malaconteron a ath	27 - 725 - 7	
(Blyth 1844 · 385)	ogulare (Blyth)—type onl	
(382) Kenopia striata (Bly	th)—type only (Blyth, 1842	
(389) Macronus p. ptilosus	Jard. and Selb.—cat Mus E	
(See) Statemy IIS INETICOINS	Prvincenotic (Dist.) To an	
care (Gourd Coll.)	also cal Mus A C Donous	
(394) Stachyris maculata po (Gould coll.).	ectoralis (Blyth)—B. M. cat	
In addition the Brownhanded Proce	-Rabbler No 977 M	
teron m. magnirostre (Moore), has	been claimed for Singapous	
Island (Chasen, 1923: 104); it mig	ht possibly be here, but there	
	nd Chasen does not cite any	
particulars of a visual one.		
Genus Malacocincla Blyth		
370. Malacocincla m. malaccensis	Resident in small numbers	
	Probably restricted to	
Short-tailed Babbler.	wooded areas round	
	Bukit Timah forest	
371. Malacocinela r. restrotum	reserve.	
(Blyth).	Resident, occurring mostly in the mangrove belt;	
Mangrove Brown Babbler.	fairly common.	
(Striple)	Resident, occurring most-	
Common Brown Poblan	ly in secondary wooded	
	areas. Common.	
Genus Turdinus Blyth		
384. Turdinus m. macrodactylus	Resident, in very small	
(SUICKL).	numbers, in swampy	
Largerooted Wren Babbler.	wooded areas: possibly	
	now occurring only on	
	the north side of the island.	
Genus Macronus Jardine and Selby		
388. Macronus g. gularis	Resident, mostly seen in	
(florsi.).	coastal scrub; common	
Yellowbreasted Tit Babbler.	in these areas.	
Genus Stachyris	Rlyth	
DAY COLUMN		
(Blyth),	Resident, occurring mostly in dry scrub; fairly	
Redwinged Tree Babbler.	common.	
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	(382) Kenopia striata (Bly 793). (389) Macronus p. ptilosus I. Co. (Horsfield at (392) Stachyris nigricollis cat. (Gould coll.); (Blyth, 1849: 149) (394) Stachyris maculata per (Gould coll.). In addition the Brownheaded Treeteron m. magnirostre (Moore), has Island (Chasen, 1923; 104); it migare at present no formal records, a particulars of a visual one. Genus Malacocincla m. malaccensis (Hartl.). Short-tailed Babbler. 371. Malacocincla r. rostratum (Blyth). Mangrove Brown Babbler. 374a. Malacocincla abbotti olivacea (Strick.). Common Brown Babbler. Genus Turdinus (Strickl.). Largefooted Wren Babbler. Genus Macronus Jardinus (Strickl.). Genus Macronus Jardinus (Horsf.). Yellowbreasted Tit Babbler. Genus Stachyris (Blyth), Redwinged Tree Babbler.	

Family ÆGITHINIDAE examp Genus Ægithina Vieillot sae H Kalan 413. Ægithina v. viridissima Resident, in small numbers, subsec occurring this p mostly Green Iora. thickly wooded areas. 414b. Ægithina tiphia singapuren-Common in Resident.* sis Chas and Kloss. scrub, orchards and simi-423. Common Iora. lar open wooded areas. Genus Chloropsis Jardine and Selby 416a. Chloropsis c. cyanopogon Resident, in small numbers, (Temm.). 426.probably confined to the Lesser Green Leaf-Bird. Bukit Timah forest area. 417. Chloropsis sonnerati zoste-Resident. Fairly common 427. rops Vig. in wooded, but not culti-Greater Green Leaf-Bird. vated, areas, including the mangrove belt. 418. Chloropsis cochinchinensis Resident, in small numbers, icterocephala Less. in open wooded areas. Bluewinged Leaf-Bird. 428. Genus Irena Horsfield 420. Irena puella malayensis Resident, occurring in small Horsf. and Moore. numbers in the more Fairy Bluebird. heavily wooded areas; 431. common on Bukit Timah. Family PYCNONOTIDAE There are old single records for two additional bulbuls which have not been confirmed subsequently, and which are not accepted 433a. here. They are ascribable to the following birds, (421) Pycnonotus eutilotus (Jard. and Selb.)—the type (Jardine and Selby, 1836: pl. 3). (422) Pycnonotus melanoleucos (Eyton)—B. M. cat. (Pur-434. chased). 435.

On the other hand, the Yellowcrowned Bulbul, No. 429, Pycnonotus zeylanicus (Gmel.), has not been recorded from Singapore Island, though it might well have occurred here in the past, or even be still in our area. It has been reported from Pulau Ubin.

There is a visual record of a third introduced bulbul, but at present no indication that it is breeding on the island. Two

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examples of Hartert's Chinese Bulbul, Pycnonotus sinensis formosae Hart., were seen together on open scrubby ground near Kalang airport on 8 April, 1949 (F. G. H. Allen). They were subsequently reported at intervals through the month, and in this period also seen by Bromley and Edgar.

Genus Pycnonotus Boie

- 423. Pycnonotus a. atriceps (Temm.). Blackheaded Bulbul.
- Resident, in small numbers, in the wooded areas round Bukit Timah at least; possibly still occurring more widely.
- nbers, to the H26. Pycnonotus c. cyaniventris Blyth.

 mmon Greybellied Bulbul.

 culti- 427. Pycnonotus jocosus erythro

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- Resident, but rather scarce, in open wooded country.
- 427. Pycnonotus jocosus erythrotis (Bp.). Redwhiskered Bulbul.
- Introduced about twentyfive years ago and apparently maintaining itself before the recent war; very few postoccupation records.
- 428. Pycnonotus cafer aurigaster (Vieill.). Goldenvented Bulbul.
- As for No. 427 above, but only a few pairs were detected. It has not been reported since the war, and may have disappeared.
- 431. Pycnonotus goiavier personatus (Hume). Yellowvented Bulbul.
- Resident.* Widespread, in all kinds of open wooded country; one of the commonest birds on the island.
- 433a. Pycnonotus p. plumosus Blyth. Large Olive Bulbul.
- Resident.* Common in secondary wooded areas and belukar away from the town.
- 434. Pycnonotus b. brunneus Blyth.
- Resident. Common and widespread in the more thickly wooded areas.
- Redeyed Brown Bulbul.

 435. Pycnonotus s. simplex Less.
 White-eyed Brown Bulbul.
- Resident. Fairly common in the more thickly wooded areas.
- 436. Pycnonotus e. erythropthalmos (Hume). Lesser Olive-brown Bulbul.
- Resident. Not uncommon, but less plentiful than the preceding two species.

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Genus Criniger Temminck

439. Criniger p. phaeocephalus
(Hartl.).
Whitethroated Bulbul.
Whitethroated Bulbul.

Formerly resident, occurring in fairly thickly wooded country; possibly still present, but there are no recent records for it.

Genus Microscelis Gray

442. Microscelis o. olivacea Blyth. Resident, Fairly common Crested Olive Bulbul. in open wooded areas.

Family TURDIDAE

There are also single records of two thrushes not otherwise known from the Malaysian sub-region. In both cases they must have been escaped birds, and they are not accepted here. Hume (1879: 156) lists a Singapore specimen of Turdus naumanni Temm. Kelham (1881: 510) records a specimen of Turdus ruficollis Pall. which Davison had shown to him, saying that it was shot in Singapore.

Genus Copsychus Wagler

- 450. Copsychus saularis musicus (Raffles).

 Magpie Robin.

 Resident.* Widely distributed and plentiful in open wooded areas, including orchards and gardens, but rather less noticeable than before the war.
- 451. Copsychus malabaricus mallopercnus Oberh.
 Common Shama.

 Common Shama.

Genus Saxicola Bechstein

455. Saxicola torquata stejnegeri (Parrot).
Siberian Stone-Chat.
Siberia

Genus Turdus Linné

458. Turdus o. obscurus Gmel. Scarce winter visitor.

Dusky Thrush.

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Family SYLVIIDAE

Genus Cisticola Kaup

Lynes.
Streaked Fantail Warbler.

Resident.* Very plentiful in areas of open grass-land.

Genus Prinia Horsfield

468. Prinia flaviventris rafflesi Resident.* Common in Tweed.
Yellowbellied sparsely interspersed with scrub vegetation.

Genus Locustella Kaup

471 Locustella lanceolata Scarce winter visitor.

(Temm.).

Streaked Grasshopper-

Warbler.

Genus Acrocephalus Naumann

472. Acrocephalus arundinaceus orientalis (Temm. & Schleg.).
Great Reed-Warbler. Winter visitor, fairly common in swampy country from October to April.

Genus Phylloscopus Boie

474. Phylloscopus b. borealis
(Blas.).
Arctic Willow-Warbler.

Winter visitor, occurring widely and in some numbers, mostly from October to April.

Genus Orthotomus Horsfield

481a. Orthotomus a. atrogularis
Temm.
Blacknecked Tailor-Bird.

Resident.* Widespread and common in scrub and secondary wooded areas.

2. Orthotomus sutorius maculicollis Moore.
Longtailed Tailor-Bird.
Resident.* Plentiful in areas of scrub vegetation, gardens and orchards; the commonest tailor-

483. Orthotomus sericeus hesperius Oberh.
Redheaded Tailor-Bird.
Redheaded Tailor-Bird.

hird in our area.
Resident. Fairly common in scrub and secondary wooded areas.

34. Orthotomus sepium ruficeps Resident. Widespread and common in and near the mangrove belt.

 Birds ascribable to the Alaskan race, P. borealis kennicotti Ridg., are probably also reaching Singapore Island; examples have recently been discovered in collections of P. borealis from the mainland of Malaya and the islands in the Malacca Strait.

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Family Muscicapidae

The Maroonbreasted Flycatcher, No. 513, Drymophila velata caesia (Less.) is recorded by Salvadori (1874: 139), quoting a bird in the Gould collection. It is normally an inhabitant of the more densely wooded sections of forest country, and may possibly have been on Singapore Island a hundred years ago. There are no subsequent records.

Genus Rhipidura Vigors and Horsfield

487. Rhipidura javanica longicauda Wall.
Pied Fantail-Flycatcher.

Resident. Widely spread and fairly common in open wooded country, including gardens and orchards away from the town; very common in mangrove areas.

Genus Muscicapa Brisson

494. Muscicapa I. latirostris (Raffles).

Brown Flycatcher.

Winter visitor, plentiful and widely distributed from October to the beginning of April.

500. Muscicapa r. rufigastra . (Raffles).

Mangrove Blue Flycatcher.

Resident. Apparently restricted to the mangrove belt, where it is fairly plentiful.

Genus Drymophila Temminck

512. Drymophila p. pyrhoptera Resident. Fairly common (Temm.). in scrub and wooded Chestnutwinged Flycatcher. areas.

Genus Hypothymis Boie

Oberh.

Blacknaped Blue Flycatcher.

Resident, in small numbers.
Frequents scrub and thickly wooded areas.

Genus Terpsiphone Gloger

515a. Terpsiphone paradisi affinis Scarce visitor. Said to (Blyth).

Resident Paradise the island formerly.

Flycatcher.

515c. Terpsiphone paradisi incei Scarce winter visitor.
(Gould).
Chinese Paradise
Flycatcher.

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Genus Pachycephala Vigors

Family Motacillidae

Genus Motacilla Linné

518. Motacilla cinerea melanope
Pall.
Grey Wagtail:
Winter visitor, common in open country from early September to March; some birds stay on into

519a, Motacilla flava taivana (Swinh.).

Greenheaded Yellow Wagtail,

519b. Motacilla flava simillima Hart. Blueheaded Yellow Wagtail.

Winter visitor, occurring widely in moderate numbers from the second half of September to early May.

Scarce winter visitor.

Genus Dendronanthus Blyth

520. Dendronanthus indicus (Gmel.). Forest Wagtail.

Passage migrant, fairly widely distributed in wooded areas September-October and March-April; some birds present all through the winter.

Genus Anthus Bechstein

522. Anthus novaeseelandiae malayensis Eyton.

Malay Pipit.

Resident.* Plentiful in grassland and similar open country.

Family LANIIDAE

Hume (1879: 57) lists a specimen ascribable to the Greybacked Shrike, No. 523, Lanius schach bentet Horsf., which is said to have been taken on Singapore Island. The bird is a rather scarce resident in the northern Malay States, and there are no other formal records south of Kuala Lumpur. It seems probable that the skin is wrongly localised.

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Genus Lanius Linné

	Genus Lai	nius Linné	E 3145	
524,	Lanius cristatus Linn. subsp. Brown Shrike.	Winter visitor, occurring fairly widely from October to end of April. Examples of three races have been taken on		527.
		Singapore Island (L. c. cristatus Linn., L. c. lucionensis Linn., and L. c. superciliosus Lath)		528.
		but it is not at present possible to say with certainty which is the commonest in our area;		530a
		possibly it is the last of these, L. c. superciliosus, arriving by way of the China Sea islands or the		530b
-525,	Lanius tigrinus Drap. Thickbilled Shrike.	west coast of Borneo. Winter visitor in small numbers, seen mostly in shady situations and woodland on the borders of open country, from late September to April.		532.
	· T- 2 0		1000	533.
	Family ST			
4604	obinson (1910: 18) lists "S	turnia malabarica (Gm.)" and		

Robinson (1910: 18) lists "Sturnia malabarica (Gm.)" and "Sturnia nemoricola (Jerd.)" for the Malay Peninsula on the strength of information given to him by Dr. Hanitsch that they were present on Singapore Island. The two specimens in question (30 October, 1891, and January 1892, both c.n.k.) are still in the Raffles Museum collection; they are immature females of Sturnus sinensis (Gmel.), No. 528 below. This list also takes no cognisance of Gracupica m. melanoptera (Daud.) and G. m. tricolor (Horsf.), which would seem to be based on a single immature 2 of melanoptera, presumably an escaped cage-bird, taken on 20 July, 1920 (de Fontaine).

Genus Aplonis Gould

526. Aplonis panayensis strigatus (Horsf.). Glossy Tree-Starling.	buted, and in parts very
Tree Stating.	plentiful.

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Genus Sturnus Linné

Sturnus sturninus (Pall.). Daurian Starling.

Winter visitor from about the middle of September to March. The numbers vary considerably, but large flocks are sometimes seen.

528. Sturnus sinensis (Gmel.). Chinese Starling.

Winter visitor, varying in numbers much as No. 527 above does.

Genus Acridotheres Vieillot

530a. Acridotheres fuscus torqua- Resident. Fairly common tus (Davison).

in some areas on the outskirts of the town.

Buffalo Myna. 530b. Acridotheres fuscus javani- Introduced before 1925 cus (Cab.). Javanese Myna.

(Chasen, 1925: 73). Now flourishing and well-established.

Acridotheres t. tristis (Linn.). Common Myna.

Resident.* Plentiful in a few areas. Apparently a recent spread southwards down the Malay Peninsula.

Genus Gracula Linné

533. Gracula r. religiosa Linn.

Resident, in small numbers in the wooded areas round Bukit Timah.

Family NECTARINHDAE

There are also old records for two additional sunbirds and a spider-hunter. They have not been confirmed subsequently, and are not accepted here. They are ascribable to the following birds,

(534) Anthreptes s. simplex (S. Müll.)—Salvadori (1874: 173).

(536) Anthreptes r. rhodolaema Shelley—Hume (1879: 56), a trade skin.

(549) Arachnothera c. chrysogenys (Temm.)—Hume (1879: 55), and B.M. cat. (Gould coll.).

On the other hand the Rubycheeked Sunbird, No. 538, Anthreptes s. singalensis (Gmel.) may possibly be here (fide Robinson, 1927: 312), and the Greater Yelloweared Spiderhunter, No. 548, Arachnothera flavigaster (Eyton), which is known to occur on Pulau Ubin. In neither case, however, do there appear to be any formal records available.

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Genus Anthreptes Sw	ainson
(Scop.). Res (Scop.). C Brownthroated Sunbird. b	oastal districts, mostly, ut not invariably, in the
Blyth. Res. Purplenaped Sunbird. Res.	alms. ident, in small numbers. ound mostly in wooded reas away from the past.
Genus Leptocoma Cab	ania
(Gmel.). Resi	dent. Not uncommon
(Jard.). Residual Control (Jard.). Macklot's Sunbird.	dent. Plentiful in parts the coastal belt, occur-
leuca (Oberh.). Yellowbreasted Sunbird.	lent.* Very plentiful 556 ar the coast, and freently seen in gardens this region: the com
isla	and.
Genus Aethopyga Caba	nis
(Raffles). Residence Coarse Co	- Particle
Genus Arachnothera Temp	olinals.
(Lath.). Reside (Lath.). num Little Spider-hunter. and	ent. Present in small abers in wooded areas scrub on the borders
46. Arachnothera crassirostris (Reichenb.). Lesser Thickbilled Spider- hunter. (c.n. of spide	ultivated ground. nably resident. Only record for our area, ng, 28 August, 1920 k.), but this is one the rarest of the er-hunters in the
Maia	y States.
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White September 1	
in stly,	550. Arachnothera affinis mod-Resident,* in small num- esta (Eyton). bers in open wooded Greybreasted country. Spider-hunter.
pnut	Family DICAEIDAE
ers.	Genus Dicaeum Cuvier
oded	
the	552. Dicaeum cruentatum igni- Resident.* Common in tum (Begb.). cultivated areas and secondary woodland. Flower-pecker.
SI SI DI SUS	554. Dicaeum t. trigonostigmum . Resident. Very common in
mon	(Scop.). open areas where there
also	Orangebellied are flowering trees and
nah.	Flower-pecker, shrubs,
arts	555. Dicaeum c. chrysorrheum Resident, in small numbers.
cur-	Temm, Seen mostly in open
aan-	Yellowvented scrub.
lms.	Flower-pecker.
aful	556. Dicaeum concolor bornea- Resident. Not common in
fre-	num Lönn. Malaya, and in our area
ens	Plaincoloured known from only two
om- the	Flower-pecker. specimens, July 1893 (c.n.k.) and 15 January (Tan Kian Soe).
	Genus Anaimos Reichenbach
in in or irly	559. Anaimos m. maculatus Resident in small numbers, occurring mostly in thickly wooded areas.
lah.	
BULL DESIGNATION	Family Zosteropidae
	Genus Zosterops Vigors & Horsfield
nall eas ers	562a. Zosterops palpebrosa wil- liamsoni Rob and Kloss. Coast White-Eye Resident.* Common in mangrove areas along the coast, and in open wooded localities, includ-
	ing large gardens, several
nly	miles inland.
rea,	
920	Family Ploceidae
bne	Hume (1880: 118) records the Scarlet Amandavat, Aman-
the the	dava amandava (Linn.), as plentiful on Singapore Island when Davison was collecting for him, giving the names Estrelda amandava (Linn.) and E. flavidiventris Wallace, but he is of the
LES	Mus. 21, 1949. [175]

opinion that the birds had been introduced. They do not appear to have been able to maintain themselves, and they were certainly not feral on the island in the inter-war period. Escapes do, however, still occur, probably of the Javanese Amandava amandava punicea (Horsf.), which is imported in some numbers as a caged bird. F. G. H. Allen and Bromley both give post-war visual records of a pair (\$\delta\$ \gamma\$) of Scarlet Amandavats from the neighbourhood of the Kalang airport, but there is no indication that

Genus Passer Linné

564. Passer montanus malaccen- Resident.* Widely spread

. Malayan Tree-Sparrow.

and very plentiful in the neighbourhood of human habitations. May also occur away from them, and is possibly the most numerous resident bird on the island.

Genus Padda Reichenbach

565. Padda o. oryzivora (Linn). Introduced. Java Sparrow.

Largely restricted to the town area, where it mixes freely with No. 564 above. Less plentiful since the war, but still common in a number of localities.

Genus Munia Hodgson

566. Munia atricapilla sinensis Resident.* Fairly common Blackheaded Munia.

Munia m. maja (Linn.). Whiteheaded Munia.

Munia punctulata fretensis Kloss. Spotted Munia.

569. Munia striata subsquami- Resident, Occurs mostly in Sharptailed Munia.

on or near open grassland.

Resident.* In parts plentiful on open grassland.

Resident.* Plentiful on open grassland and bēlukar, especially near human habitations; enand

kampong areas and grassland interspersed with patches of woodland. Fairly common, but less numerous that the preceding species.

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570b. Munia leucogastra leucogas-troides Horsf. and Moore. Jayanese Whitebellied scrub or broken grass-Munia.

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few localities, mostly scrub or broken grassland near to human habitations.

Genus Ploceus Cuvier

573. Ploceus philippinus infortu- Resident.* Common and natus Hart. Weaver-Finch.

fairly widely distributed on the edges of grassland.

Appendix

Birds for which there is direct evidence of breeding in our area are marked on the foregoing list with an asterisk after the designation "Resident". The following notes summarise the data at present available, and where possible give the references to published sources or summaries. Records ascribed to Spittle were obtained on the Changi Promontory, at the north-east corner of the island, during his detention there as a military prisoner-of-war from 10 December, 1942 to the end of May 1944. Data collected by Gibson-Hill in the Sime Road area were obtained in or near the civilian internment camp adjacent to the golf course between May 1944 and August 1945. Some of the records given by Ridley (1898) are not accepted here as it is not certain from his account that they refer to nesting on Singapore Island. In addition, in Ridley's day the Botanic Gardens were larger and much more attractive to birds. A few of the species which he saw there, such as the Green Broadbill (318a), are now seldom encountered anywhere on the island. Others like the Southern Pied Hornbill (278) have not been recorded by any subsequent

The total amount of information available is disappointingly small. About 151 birds are almost certainly resident on Singapore Island, and a further 5 are probably resident here. Nevertheless we have records for only 59, and in many species these are single notes of one nest or even of fledglings barely able to fly. It would seem that at least the great majority of the birds breed, or have their peak laying period, somewhere bet-ween January and August, but in most cases we cannot pin it down precisely. There are less than 15 birds for which we have over 20 dated nesting records at the present time, and only 6 for which we have more than 40 records (Nos. 240, 333, 431, 466, 541a and 568).

15a. Bromley (in litt.) reports locally-bred juveniles seen in the Kalang mangrove area on 29 April.

26. Spittle (MS notes) reports a nest with eggs found on Bukit

Sembawang estate, near Changi; information from E. K. Allin; date not known.

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		- 4
48,	Nest with young near Bedok, February (Gibson-Hill).	
56.	Ridley (1898: 74) records breeding in the Botanic Gardens, the same nest being used for over 9 years.	
60.	Nest reported by Molesworth (in litt.) circa April 1940; adult birds photographed. Ridley (1898: 73) says a pair nested in the Botanic Gardens for many years.	1
78.	Three clutches, or part clutches, found in lalang in the Sime Road area, late September and October; two eggs found in the same locality in January (Gibson-Hill).	
91a.	Spittle (MS notes) reports a nest with eggs found by Allin on 8 August; a young chick taken on 22 January; and parties of immature birds seen 24 April and late July. Gibson-Hill (MS notes) records remains of a clutch found in lalang in the Sime Road area in August, and a single egg, same locality, in October. Chasen (1927: 44) says that the breeding season in Singapore appears to be May-July.	
93,	Spittle (MS notes) reports a juvenile seen in the mangrove belt on Changi Promontory on 19 April. Chasen (1927: 69) mentions nestlings taken on Singapore Island in June.	
97.	Gibson-Hill (MS notes) reports four nests, clutches 5-6 eggs, found on lalang and <i>Melastoma</i> slopes in the Sime Road area between the beginning of September and the middle of October.	
99.	Gibson-Hill (MS notes) reports three nests, clutches 4-5 eggs, found in the same area as those of No. 97 above, between the middle of June and the beginning of July.	
100b.	Two chicks seen with an adult in a lalang-covered valley, Sime Road area, on 15 May (Molesworth in litt.). Chasen (1927: 71) says that it formerly bred in the Botanic Gardens.	
153.	F. G. H. Allen reports three pairs breeding on Squance Rock (Batu Putch) off Loyang; eggs, 2 c/2 and 1 c/3, present on 12 June, 1949.	
163.	Chasen (1927: 54) reports a female taken in February which contained fully developed eggs.	
166.	Spittle (MS notes) reports a nest, with the bird sitting, discovered by E. K. Allin on 6 May. Gibson-Hill (MS notes) records a nest in the Sime Road area, eggs hatched 22 June.	The same
175.	Breeding known widely. Eggs reported for all months from February to August. Spittle (MS notes) suggests a peak laying period from February to April inclusive.	
176.	Gibson-Hill (MS notes) and Spittle (MS notes) both report eggs or young birds February, March, May and June; Gibson-Hill records a post-nest juvenile seen early in August.	
190a.	Chasen (1927: 148) records a nestling taken from the nest of the Common Iora; no other data.	
205b.	Dr. Molesworth found a young fledgling in a lalang slope in the Sime Road area in August 1944 (Gibson-Hill, MS notes).	
206.	Spittle (MS notes) reports nests with eggs found in March and April, and post-nest juveniles found in February, June and early October.	
	Breeding reported by Ridley (1898: 76) without precise data. A family party with two juveniles found in the Sime Road area about the middle of July, 1944 (Gibson-Hill, MS notes).	
219c.	Robinson (1927: 84) reports nestlings taken by F. N. Chasen on 23 April; no other data.	
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・ 対象の表示には、対象の表示を表示して、	
the	 Gibson-Hill (MS notes) reports eggs, 2 c/2, found near the bases of Melastoma bushes on lalang slopes in the Sime Road area in May. Ridley (1898: 77) says June is the usual breeding season.
	33b. Small colony in an office building in Robinson Road; according to the caretaker the birds breed all through the year; presence confirmed December 1948, but not investigated further.
on	 Breeding known widely. Spittle (MS notes) reports occupied nests seen from 16 December to 15 August. Possible peak laying period from April to June.
MS the	 Several records of nests without dates. F. G. H. Allen reports nest with eggs found in May.
in in	 Breeding reported from Sime Road area, egg hatched about 23 May (see Gibson-Hill, 1950b).
	 Bird seen digging in September and October, but both tunnels ultimately abandoned. Nests with young found in February and March (Gibson-Hill, MS notes).
	 Several undated records. Spittle (MS notes) reports a nest that had 3 nestlings in it on 9 May, 3 eggs on 13 July and 2 young plus 1 addled egg on 9 May the following year.
er.	 Spittle (MS notes) reports birds digging in a disused sand-pit near Changi village, late March. Ridley (1898: 78) says it formerly nested in sand-pits on the Serangoon Road.
ime 2	 Ridley (1898; 79) records breeding in the nest of a tree-ant in the old Botanic Gardens.
71) 3	12. Three single nests reported from Sime Post
ock on 3	29. Chasen (1939: 198) reports eggs seen in the will a
ieh 3	33. Breeding known widely. Eggs mostly laid in the period February to June inclusive, but occasional churches
red 3	these dates. Double-brooded. Sometimes using the same nest. Several records of breeding. Eggs mostly laid in the period bird is double brooded; sometimes uses the same nest.
rom rak	51b. Breeding known widely. Eggs laid over period December to June at least. Probably double-brooded.
Egs 4	14b. Spittle (MS notes) reports an inaccessible nest, probably containing young, found in April. Family parties observed in Sime Road area in May and July (Gibson-Hill, MS notes). The nest is seemingly difficult to spot; Ridley (1898: 85) says that he never saw one though the bird was certainly breeding in the Botanic Gardens in his day.
the 4	31. Breeding known widely. Spittle (MS notes) reports occupied nests found from the beginning of February to the end of April. This covers the first peak period. The bird is certainly normally double-brooded and there are a number of records of peats with
ta.	a bird sitting on 9 September and young barely able to dates,
pad .	seen on 23-25 September (Gibson-Hill, MS notes).
bs). 4:	3a. Breeding reported by Ridley (1898: 85).
	O. Several records of breeding. Eggs laid per period January to July at least. Probably double-brooded.
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- 466. Breeding reported by Gibson-Hill and Spittle. Eggs normally laid over period March to August inclusive, with the majority of the nests active between June and August (see Gibson-Hill 1950a).
- 468. Spittle (MS notes) reports 3 nests in period April to June.

 Gibson-Hill (MS notes) 2 nests with eggs early June and 1 found on 27 June.
- 481a. Reported breeding Sime Road area 1944; precise data lost (Gibson-Hill, MS notes).
- 482. Several records of breeding. Eggs laid over period February to September. Spittle (MS notes) reports nest building in January. Probably 3 broods in a year (Gibson-Hill, MS notes).
- 522. Spittle (MS notes) reports eggs from March to June, with nests found under construction in February and a fledgling seen in July. Double-brooded.
- .526. Several records of breeding, but without precise data.
- 532. Several records of breeding. Spittle (MS notes) reports eggs laid over the period February to July, with birds seen carrying nesting material at different times from 15 January to 1 September. Certainly 2, sometimes 3, broods in a year.
- 535. Spittle (MS notes) reports nests with eggs or young found on 16 February, 26 April and 4 May.
- 541a. Breeding known widely. Eggs laid in the period from January to September, at least, with periods of augmented activity from January to March and July to September (see Gibson-Hill 1950a).
- .543. Molesworth (in litt.) reports a nest with 3 eggs found in March 1941.
- -550. Reported breeding in the Sime Road area in June (Gibson-Hill, MS notes). Ridley (1898: 86) describes nesting in the Botanic Gardens, month not stated.
- -552. Spittle (MS notes) reports a fledgling being fed on 19 February, Gibson-Hill (MS notes) reports a fledgling barely able to fly on 24 September.
- .554. A fledgling just able to fly seen on 19 May (Gibson-Hill).
- -562. Reported breeding Sime Road area 1944; precise data lost (Gibson-Hill, MS notes).
- 564. Breeding known widely. Probably nests more or less continuously all through the year.
- .566. Spittle (MS notes) reports a nest with eggs found by E. K. Allin on 6 May.
- 567. Several records of breeding. Eggs laid in the period from February to July inclusive at least. Certainly 2, possibly 3, broods in a year.
- .568. Breeding known widely. Eggs laid in the period February to September at least. Nest building noted from January onwards, and by Spittle (MS notes) as late as September. Probably 3 or more broods in a year.
- 570b. Spittle (MS notes) reports family party of 4 fledglings being fed by an adult on 27 June. Gibson-Hill (MS notes) reports nests with eggs and young in the Sime Road area in July, and family parties with 3 and 4 fledglings seen in September and October. F. G. H. Allen reports single nests with young found at Kampong Loyang in October and May.
- -573. Nests and cock bird swings known fairly widely, but apparently there are not yet any dated records for breeding in our area.

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1950a).	
June.	The following list comprises the principal works consulted in preparing the foregoing list. These
and 1	in preparing the foregoing list. Those authors who supplied
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^{1.} Mr. Spittle very kindly placed a copy of his MS notes at the disposal of the present writer, and these were used during the preparation of this checklist. Subsequently a condensed version of the notes, including in it nearly all the original data on nidification, has been prepared for publication in this Journal and is printed on pages 184-204. Page references to Mr. Spittle's paper have not been inserted in the present paper in view of the technical difficulties involved, but Mr. Spittle uses Malayan Checklist numbers throughout his paper, as here, and it should therefore be fairly easy for workers to find the corresponding sections.